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TI - Heat resistant antistatic agent for resin - consisting of compound having counter ion and cationic group in molecule

IW - HEAT RESISTANCE ANTISTATIC AGENT RESIN CONSIST COMPOUND COUNTER ION CATION GROUP MOLECULAR

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AB - An antistatic agent (I) for resin comprises (A) a compound having (a) a counter anion and (b) a cationic group in the molecule wherein the counter anion (a) is a super acid and the cationic group (b) links to (c) a nonionic molecular chain. Also claimed are : (1) : The cationic group (b) is a quaternary ammonium salt or phosphonium salt. (2) : The counter anion (a) is a super acid having acid coefficient (-H0) of Hammett of at least 12. (3) : The counter anion (a) is a combined super acid of (d) a proton acid and (e) a Lewis acid. (4) : The proton acid is HF, HCl, HBr or HI, the Lewis acid is BF₃, PF₅, SbF₅ or AsF₅. (5) : The nonionic molecular chain is bivalent organic group of bivalent hydrocarbon, ether, thioether, carbonyl, ester, imino, amide, imide, urethane, urea, carbonate, siloxy, heterocyclic structure containing N or O. (6) : An antistatic resin compsn. comprises a resin (II) blending (I) at a ratio of 99.9/0.1-99/10 of (II)/(I) by weight.

- USE :

The antistatic resin composition is used for manufacturing instrumental cover, housing of electric appliances, etc.

- ADVANTAGE :

The antistatic agent is more improved in heat stability than conventional ones, when it is blended with a resin having high processing temperature antistatic capacity is not lowered and less discoloured.

NOT AVAILABLE

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SEARCH REPORT